ABSTRACT OF THE DISCLOSURE

Systems and systems that protect data are provided. In one embodiment, a system may include, for example, a memory and a processor. The memory may store, for example, encrypted data. The processor may be coupled to the memory and may include, for example, a decryptor that decrypts the encrypted data. The decryptor may be adapted, for example, to variably bit roll the encrypted data, to fixedly bit shuffle the bit-rolled data, to add a first key to the bit-shuffled data and to process the added data with a second key.